Figure 1 (SEQ ID NO: 1)

3 (SEQ ID NO: 2)

Tsp45 I

tgctto late a orange to the tagget of the property of the tagget of tagget o

(SED ID NO: 3)

130 130 124 133

130 140
0 EEGYQDYEPEA
0 EEGYQDYEPEA
4 QEEYQEYEPEA
5 EEEYQDYEPEA
6 ------ETGK

Sortnus canaria (SEQ IDAO: 6)

The norvegious (STAID AND

: Saptom (SEA IDAO:

Tomado californica CSEQ ID NO.

58686 54 64 6 AAT ۷ م ۵ ه ۷ ۹ ۷ DD Þ Z Z 3 3 3 A T AT Þ A T DVF DVF D D < দ ର ଚ G G F V K K D Q L G K - N - - - E E G G F V K K D Q M G K - G - - - E E G G L V K K E E F P T - D L K P E E G L V K K D Q L A K Q N - - - E E G G V V K L D E H G R - E I P A E Q G 3 KGLS KGLS व क क क क S J K A K E G V V A A A E K T K Q G V A E A A G K T - - - - - - - - - - - - - K E G V L Y
M A K E G V V A A A E K T K Q G V T E A A E K T - - - - - - - - - - - - - K E G V L Y
K A K E G V V A A A E K T K Q G V A E A A G K T - - - - - - - - - - - - - K E G V L Y
F A K E G V V A A A E K T K Q G V Q D A A E K T K Q G V Q D A A E K T K E G V M Y KAKE GVVAAAEKTKQ ZEGAPQ
EEGYPQ - - EU
KPEEVAQ - - EAAE E
- EEGFLQ - - EGM - - - VN.
OVAEGKQTTQEPLVE GVA (T) BAAG - LED - - MPVDPI × , ATEAT DESD z  $v \approx$ 1 E A Y E I EGAGNIA GVENVA KEGVLY E Q P S NIA Z V 3 ש S ¹ ¹~~o sapiens Cortous canaria การ โลบเบร ີລ‼us norvegicus ಲ್ಲಾ⊪ıs norvegicus टिन्द faurus norvegicus norvegicus Theorem californica Think callfornica Corinis canaria าวาร โลบทบธ The saplens Theoretical californical Corinus canada inmo sapions

## alpha-SYN exons 1-2 (SEQ ID NO: 14)

10	20	30°	<b>4</b> (
AATTTCAGCGATGCG		<del></del>	GGTGCG 40
GTGTGAGCCACCTCC			
CTCCCCAAGGGATAG			
AGGCCCTCGNTCTCC	CAGGNEGACTE	TGACGAGG	GGTAGG 160
GGGTGGTCCCCNGGA	GGACCCAGAGG	AAAGGCNG	GGACAA 200
210	220	230	240
044000400004400			
GAAGGGAGGGGAAGG AGCCCAACCGCTCCC			
CTAAACTTAACGTGA			
CCGCCTTGNNCCAGG			
CCCGCGCCCCCCTGCC			
410	420	430	440
ليبيانسليس	. — –		
GGAGCACGCTGCAGG	GAAAGCAGCGA	GCGCCGGG.	AGAGGG 440
GCGGGCAGAAGCGCT	GACAAATCAGC	GGTGGGGG	CGGAGA 480
GCCGAGGAGAAGGAG			
ACGGCGACGACCAGA			
ACCGAGCGCCGCGAC	GCGAAGTGAGG	TGCGTGCG	GGCTCA 600
610	620	630	640
GCGCAGACCCCGGCC			
CGCTCCCTCACGCCT			
CCCTCGTGAGCGGAG			
GGTTAGCGGGTTTGC			
CCGGCTCACAGCGGC			
810	820	830	840
GTGCCCCTCCGCCCT			
TTTCCTATTAAATAT			
TTTTAAAAAAAGAGA			
GAGAAGCAGAGGGAC			
CGGGNGTCTTTGGAA			
1010	1020	1030	1040
LILLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL	<del></del>		
	CCCCCACCCC	TOOTOOTO	CCATCA 1000
	CCGGGAGGGG		
GGACCGCTGGGCCAG	GTCTCTGGGAG	GTGAGTAC	TTGTCC 1080
	GTCTCTGGGA0 GAAAGAGACTI	GTGAGTAC GACC1GGC	TTGTCC 1080 TTTCGT 1120



#### alpha-SYN exon 3 (SEQ ID NO: 15)

10	20	30	40
<del></del>	المسترا المسترا	<del></del>	ابييا
CTTAAAAGAGTCTCA	CACTTTGGAG	GGTTTCTCA	TGATTT 40
TICAGIGITITIIGT	TTATTTTCC	CCGAAAGTT	CTCATT 80
CAAAGTGTATTTAT	GTTTTCCAGT	GIGGIGIAA	AGAAAT 120
TCATTAGCCATGGAT	GTATTCATCA	AAGGACTTT	CAAAGG 160
CCAAGGAGGGAGTTG	TGGCTGCTGC	TGAGAAAAC	CAAACA 200
210	220	230	240
000707000101111	<del> </del>	<del></del>	<del></del>
GGGTGTGGCAGAAGC	AGCAGGAAAG	ACAAAAGAG(	GGTGTT 240
CICIAIGIAGGTAGG	TAAACCCCAA	ATGTCAGTTI	GGTGC 280
IIGIICATGAGTGAT	GGGTTAGGAT.	AACAATACTO	OCE TAAAT
GCTGGTAGTTCTCTC	TCTTGATTCA	TTTTTCCATC	CATTGC 360
TIGTCAAAAAGGIGG	ACTGAGTCAG	AGGTATGTGT	AGGTA 400
0.40			AGGIA 400
		430	440
222111111111111111111111111111111111111	<del></del>	<u>ىبىلىيى</u>	4.4.4.1
GGTGAATGTGAACGT	GTGTATNTGA	GCTAATAGTA	AAAAT 440
GCGACTGTTTGCTTT	「CAGATITTT	AATTTTGCCT	AATAT 480
NIAIGACTTNTTAAAA	ATGAATGTTT(	CTGTACTACA	TAATT 520
CTATNTCAGAGACAGI	536		320



#### alpha-SYN exch 4 (SEQ ID NO:16)

	10	20	30	40
سيليب	<u> </u>	<u>ىيىلىنىلى</u>	سيليبيين	
CTGCAGGT	CAACGGATCT	IGICICIAGIG	CTGTACTTT	0P AA
AGCTTCTA	CAGTTCTGA	ATTCAAAATTA	TOADTOTTOT	GG 80
GCCCCGGT	GTTATCTCAT	TTCTTTTTCT	CCTCTGTAAG	TT 120
GACATGTG	ATGTGGGAAG	CAAAGGGGATA	<b>AAGTCATTAT</b>	TT 160
TGTGCTAA	AATCGTAAT	TGGAGAGGACC	TCCTGTTAGC	TG 200
	210	220	230	240
ستلتب	<u></u>	ببليييلي	ببيليبيلن	
		TGTGGTGGTTA	GGAGTTCCTT	CT 240
			TITICITIC	
			AGATTGAGAT	
TTAAATTA	GTTGTATTG	AAAACTAGCTA	AATCAGCAATT	TA 360
AGGCTAGC	TTGAGACTT	ATGTCTTGAAT	TTGTTTTGT	AG 400
	410	420	430	440
ببيليين	<u>سايينان</u>		بيلبينات	
GCTCCAAA	ACCAAGGAG	GGAGTGGTGCA	ATGGTGTGGCA	AC 440
			GATGATATNT	
			ATCAAGATTCC	
			CTAAGAACATA	
			AAGTATTTTTA	
7.0.0.	610	620	630	640
	0,0	020 		1
TACCTAA			ATATACTTGC	AA 640
		HARRIARAR	MIMINCIIGC	טרט אא.
GAATAAT	GAG 650			



#### alpha-SYN exon 5 (SEQ ID No: 17)

10	20	30	40
البيد المتيد المتيد	<u> ئىيىنىلىنى</u>	<del> </del>	<u> </u>
ATATOTTAGCCAAGAT	TCAATGTTT	GTTGAACCA	ACACTC 40
ACTIGACATETIGGT	GCTTTTGTTT	CTTCTGAC	CACTCA 80
GTTATCTATGGCATGT	GTAGATACAC	GTGTATGGA	AANCGA 120
TGGCTAGTGGAAGTGG	GAATGATTTTA	AAGTCACTG	TTATTC 160
TACCACCCTTTAATCT	GTTGTTGCT	CTTTATTTG	TACCAG 200
210	220	230	240
<u> التنالينيا</u>	<del>Links to the control of the control</del>	سيطيب	<del></del>
TGGCTGAGAAGACCAA	AGAGCAAGTO	SACAAATGTT	IGGAGG 240
AGCAGTGGTGACGGGT	GTGACAGCAG	STAGCCCAGA	AGACA 280
GTGGAGGGAGCAGGGA	GCATTGCAGO	CAGCCACTGO	SCTTTG 320
TCAAAAAGGACCAGTT	GGGCAAGGTA	TGGCTGTGT	ACGTT 360
TTGTGTTACATTTATA	AGCTGGTGAG	SATTACGGTT	CATTT 400
410	420	430	440
	بالبينانيين	ليتسليب	
TCATGTGAAGCCTGGA	GGCAGGAGCA	AGATACTTA	CTGTG 440
GGGAACGGCTACCTGA	CCCTCCCCTT	GTGAAAAAG	STGCTA 480
CCTTTATATTGGTCTT	GCTIGITI 5	04	



# alpha-SYN exon 6 (SEQ ID NO: 18)

10	20	30	40
AAAAGTTTACATACT CAATGTTTCCCCGGA TAGTAATATTAAGGT ACATCCCTATATGTA TTTTTAAAAGTGAAA	DDIDITADDD TITTADDDTD DDITTTADDA TIDATDDTAAA C <b>20</b>	CAAGATCCGT CAAGATCCGT CAAAACATGGT CATCATGTTC 230	GGCCA 120 TICTGA 160 TITTTT 200
GTGCTTCTTACTTTACAGGAAGGAATTCTAAGGATGAGGCTTATGAAGGCTTATGAAGGTCTTCTAAGGTCACATTTCTCTTT	AAATATTAGAA TGGAAGATATI AATGCCTTCTI CAAGACAGTAI TCATTAGTGC 420	GCCTGTGGAT GAGGTAGGAG CCAAAAACCT TTAGTGAGAA 430	AGCCCC 240 CCTGAC 280 TCCAAG 320 GTCATT 360 TCATTT 400 440
GCTCTCTACATGCT GAATAGTTTTTACA AGGAGGAGGAAGAT GAAATCATATGTAG TTGACCCTTTACAG	CATTACGTGG TTTTTAAAGG GAAGAAGAGG TCCACATAGC	ACAACTTGCA GTCCTTAAAA AAGAAAGGAT TTAATATACN ACTAACCCCT 630	AGTTAA 440 AAAAAG 480 GTAAAA 520 TACTAC 560
GAGAATATATTTT AGTGTAAAGTGGGG CAGTGCTGATGCGT GCTGTCT 727	AGCCATTTC	CATTGATTGTA CTATCTCATTG TTATACTAACA	GCTGTC 680



#### alpha-SYN exon 7 (SEQ ID NO: 19)

10	20	30	40
TTTTGATTTTTCTAAT AACCTGAAGCCTAAGA AGATCTGCTGACAGAT TTCLAATGTGCTCAAGT AGTGTATCTCGAAGTC	AATATCTTTG AATATCTTTG GGTTCCATCCT CATGATGAGG CATGATGAGG	CTATCAAGAO CTCCCAGTT CTACAAGTGO CTACAAGTT ACTGATTGAA 230	TACG 40 ICTTG 80 TTCAG 120 TTAC 160 4GCAT 200
CTGTACCTGCCCCCAC ACTGAAGTGAATACAT GGATTTTGTGGCTTCA AAACACCTAAGTGACT ATTTTTTTTTT	CTCAGCATTTC GGTAGCAGGG AATCTACGATG TACCACTTATT TTGTTCAGAAG 420	GGTGCTTCCC TCTTTGTGTC TTAAAACAAA TCTAAATCCT TTGTTAGTGA 430	CTTIC 240 GCIGT 280 ATTAA 320 ICACT 360 ATTIG 400 440
CTATCATATATTATNA ACTGTCTAAGAATAAT TATATNATACTTAAAA CTATAATACTAAATAT TTTTATTCACTTGTGT	AGATTTTTAGG GACGTATTGT AATATGTGAGC GAAATTTTACI TTTGTATATNA 620	TGTCTTTTAA GAAATTTGTT ATGAAACTAT CATTTTGCGA ATGGTGAGAA 630	ATGAT 440 FAATA 480 FGCAC 520 ATGTG 560 ATTAA 600 640
AATAAAACGITATCTC CCCATCTCACTTTAAT CATGAATTAAGAACTC TATTAATAGCCATTTC TAGAGAAAATGGAACA 810	CATTGCAAAAA TAATAAAAAATC. GACACAAAGGAI GAAGAAGGAGG. ATTAACCCTAC. 820	TATTTTATTT ATGCTTATAA CAAAAATATA AATTTTAGAA ACTCGGAATT 830	TTAT 640 GCAA 680 AAGT 720 GGAGG 760 CCCT 800
GAAGCAACACTGCCAG TCCTTAAGTGGCTGTG GAAGACCCCAACTACT TTCAATCCTGTCAATG TGTTGTTTGATGTGTA  1010 TTAATTGAGCCTTTTA	GAAGTGTGTTT GATTAATTATTI GATTGTAGAGTG GTTTGCTTTACI ATGTGTTTATA 1020	TGGTATGCAC GAAAGTGGGG GGTCTATTTC GTATTTTGGG ATTGTTATAC 1030 TTGTTATTT	TIGGT 840 TIGTT 880 TICCC 920 GGAAC 960 ATTT 1000 1040
TCGAAATAATTTTTA TGGTGTGAATGCTGTA GACCATGAATAAAAA CTAAGCAGTGTAGAAC	ACCTTTCTGAC. AAAAAAAAAAAG	AATAAATAAT TGGGTTCCCG	GATAT 1080 FATNC 1120 GGGAA 1160



#### alpha-SYN exon 7

	1220	1230	
<u>نىيىلىيىلىيى</u>	<del></del>		<del></del>
GAGAGCCATAAGACA	CATTAGCACA"	TATTAGCACA	TTCAA 1240
GGCTCTGAGAGAATG			
TCCTCACTTTTTTT			
CTCTCTCTTTTTCTC			
TTTTACAGGAAATGC	CTTTAAACAT	CGTTGGGAAC	TACCA 1400
1410	1420	1//20	1.000
	1720	1430	1440
ليبيليبيلييي			
GAGTCACCTTAAAGG	GAGNATCAAT	TCTCTAGGACT	GGAT 1440
GAGTCACCTTAAAGG	GAGNATCAAT	TCTCTAGGACT	GGAT 1440
GAGTCACCTTAAAGG AAAAATTTCATGGGC ATGGAATTCTAGGGG	GAGNATCAAT CTCCTTTAAAA TTTTTCCNTAC	TCTCTAGGACT ATGTTGCCCAA GGGGGAAGGGT	IGGAT 1440 AATAT 1480
GAGTCACCTTAAAGG AAAAATTTCATGGGC	GAGNATCAAT CTCCTTTAAAA TTTTTCCNTAC GGATCCTTTTA	TCTCTAGGACT ATGTTGCCCAA GGGGGAAGGGT AACNCCCCNGG	GGAT 1440 AATAT 1480 TITT 1520 GGGG 1560



(SEA ID NO: 1)

Figure 1

3 (SEQ 17 NO: 2)

getaaleogeaalttaaggetagettgagaettatgtettgoatttgttllgtugGCICCAAAACCAAGGAGGGGAGTGGTGCATGGTGTGTGAACAAGAAGAGTGGTG Gly Ser Lys Thr Lys Glu Gly Val Val His Gly Val (Thr) Thr

tgettalatecooogatgataintaaagtaielagtgattngtgtggeecogtaleoogatteetatgaaattgloaaocaoteoetgageatetangnoeatale

(SEQ ID NO. 3)



# Figure 4

Nomo sapiens Rathus norveglcus Ros taurus Sorinus canaria Torpedo californica	Momo saplens Rathis norvegicus Ros tauris Sorinus canaria Torpedo californica	Homo sapiens Rattus norvegicus Pos taurus Sorinus canaria Tomendo californica	ţ.
30 A A G K T K E G V L Y A A G K T K E G V L Y A A E K T K E G V L Y A A E K T K E G V L Y A A G K T K E G V L Y A A G K T K E G V L Y A A E K T K Q G V Q D A A E K T K E G V M Y	70 1 G A V V T G V T A V A Q K T V E G A G S I A G A V V T G V T A V A Q K T V E G A G N I A G A V P S G A G N I A G A V V T G V T A V A Q K T V E G A G N I A G A V V A G V N T V A S K T V E G V E N V A	120 L E D M P V D P D N E A Y E M P S L E D M P V D P S S E A Y E M P S E E P L I B P L M E P E G E S Y E E Q P V N N T G A A V D P D N E A Y E M P P Q E P L V B A T E A T E	
20 LGVVAAAEKTKQGVAE EGVVAAAEKTKQGVAE EGVVAAAEKTKQGVAE EGVVAAAEKTKQGVAE	60 VATVAEKTKEQVTNVG VTTVAEKTKEQVTNVG VASVAEKTKEQASHLG VTTVAEKTKEQVSNVG	110 K - N E E G A P Q E G I K - G E E G Y P Q E G I T - D L K P E E V A Q E A A K Q N E E G F L Q E G M R - E I P A E Q V A E G K Q T T	
DVFMKGLSK DVFMKGLSK DVFMKGLSK DVFMKGLSM	40 1 40 VGSKTKEGVVHG 40 VGSKTKEGVVHG 40 VGSKTKEGVVQG 40 VGSKTKEGVVQG 51 VGTKTKEGVVGG	90 AATGFVKKDQ AATGFVKKDQ AATGLVKKEE AATGLVKKEE	130 140

Homo sapiens (SEA ID AO:f)
Pattus norvegleus (SEA ID AO:f)
Bos taurus (SEA ID NO: 6)
Sertnus canaria (SEA ID AO:7)
Torpedo californica (SEA ID AO:8)



#### alpha-SYN exons 1-2 (SEQ ID NO: 14)

	10	20	30	40
AATTTCAG GTGTGAGC CTCCCCAA AGGCCCTC	CGATGCGAGO CACCTCCCGO GGGATAGGCT GNTCTCCCAO	GGCAAAGCGC GCGCTGCCTG CTGCCCTTGG GGNCGACTCT	TCTCGGCGGT TCTCCTCCAG GTGGTCGACC GACGAGGGGT AAGGCNGGGA	GCG 40 CAG 80 CTC 120 AGG 160
	210	220	230	240
GAAGGGAG AGCCCAAC CTAAACTT CCGCCTTG	GGGAAGGGGA CGCTCCCGA AACGTGAGGO NNCCAGGCAO	AAAGAGGAAG, FCTCCACAAG, CGCAAAAGCG( GGCGGCTGGA(	AGGCATCATC AGTGCTCGTG CCCCAACCTT GTTGATGGCT GAGATAGGGA	CCT 240 ACC 280 TTC 320 CAC 360
	410	420	430	440
GGAGCACG GCGGGCAG GCCGAGGA ACGGCGAC	CTGCAGGGAA AAGCGCTGA GAAGGAGAA GACCAGAAG	AAGCAGCGAGI CAAATCAGCGI GGAGGAGGAC GGGCCCAAGAI	CGCCGGAGAI GTGGGGGGCGG TAGGAGGAGG GAGGGGGCGAI GCGTGCGGGC	GGG 440 AGA 480 AGG 520 GCG 560
•	610	620	630	640
GCGCAGAC CGCTCCCT CCCTCGTG GGTTAGCG	CCCGGCCCG CACGCCTTG AGCGGAGAA GGTTTGCCT	GCCCCTCCTG. CCTTCAAGCC CTGGGAGTGG CCCACTCCCC	AGAGCGTCCT TTCTGCCTTT CCATTCGACG CAGCCTCGCG CAGCCTCCCC	GGG 640 CCA 680 ACA 720 TCG 760
	810	820	830	840
GTGCCCCT TTTCCTAT TTTTAAAA GAGAAGCA	CCGCCCTTC TAAATATTA XAAAGAGAGA XGAGGGACTC	CTGTGCGCTC TTTGGGAATT GGCGNGGAGG AGGTAAGTAC	CTTTTCCTTC GTTTAAATTT AGTCGGAGTT CTGTGGATCT GCCGGATGGA	TTC 840 TTT 880 GTG 920 AAA 960
	1010	1020	1030	1040
GAATGGTO GGACCGCT TTTGGGGA CCTGCTTO	CGTGGGNACC TGGGCCAGGT AGCCTAAGGA	GGGAGGGGT CTCTGGGAGG AAGAGACTTG CTTCTCCACA	GGTGCTGCCA TGAGTACTTG ACCIGGCTTT AGGGCTGAGA	TGA 1040 TCC 1080 CGT 1120



#### alpha-SYN exon 3 (SEQ ID NO: 15)

10	20	30	40
	<u> </u>		
CTTAAAAGAGTCTCA	CACTTTGGAG	GGTTTCTCAT	GATTT 40
TTCAGTGTTTTTTGT	TTATTTTCC	CCGAAAGTTO	CTCATT 80
CAAAGTGTATTTAT	GTTTTCCAGT	GTGGTGTAAA	GAAAT 120
TCATTAGCCATGGAT	GTATTCATGA.	AAGGACTTTC	CAAAGG 160
CCAAGGAGGGAGTTG	STGGCTGCTGC	TGAGAAAACC	CAAACA 200
210	220	230	240
<del></del>	<del>-                                    </del>	ليبين السبيب	البييا
GGGTGTGGCAGAAGC	AGCAGGAAAG	ACAAAAGAGG	GTGTT 240
CTCTATGTAGGTAGG	TAAACCCCAA	ATGTCAGTTT	GGTGC 280
TTGTTCATGAGTGAT	GGGTTAGGAT	AACAATACTO	TAAAT 320
GCTGGTAGTTCTCTC	TCTTGATTCA	TTTTTGCATC	ATTEC 360
TTGTCAAAAAGGTGG	ACTGAGTCAGA	AGGTATGTGT	AGGTA 400
410	420	430	440
<del></del>	<del></del>	<del></del>	
GGTGAATGTGAACGT	GTGTATNTGAG	CTAATAGTA	AAAAT 440
GCGACTGTTTGCTTT	TCAGATTTTT	ATTTTGCCT	AATAT 480
NTATGACTINTTAAA CTATNTCAGAGACAG	ATGAATGTTTC T 536	TGTACTACA	TAATT 520
SHUNGACAU	1 330		



#### alpha-SYN exon 4 (SEQ ID NO:16)

10 20 30 40	
<u> </u>	
CTGCAGGTCAACGGATCTGTCTCTAGTGCTGTACTTTTAA 4	_
AGCTTCTACAGTTCTGAATTCAAAATTATCTTCTCACTGG 8	_
	20
MACATOTOATOTOATOTOATOTOATOTOATOTOATOTOAT	60
TGTGCTAAAATCGTAATTGGAGAGGACCTCCTGTTAGCTG 2	00
210 220 230 240	
<u> </u>	
GGC [ ] C [ C [ X [ N ] X ] T G G G G G G G G G G G G G G G G G G	40
TCTAGTTTAGGATATATATATATATATATATATATATATA	80
GAAGATATAATATATATATATATATATATATATATATAT	20
I MAMITAGITATIONANCINGO TIME ON CONTROL OF THE CONT	60
AGGCTAGCTTGAGACTTATGTCTTGAATTTGTTTTTTGTAG 4	00
410 420 430 440	
<u> </u>	
GCTCCAAAACCAAGGAGGGAGTGGTGCATGGTGTGGCAAC 4	40
AGGTAAGCTCCATIGTGCTTATATCAAAGATGATATNTAA 4	80
AGTATCTAGTGATTAGTGTGGCCCAGTATCAAGATTCCTA 5	20
TGAAATTGTAAAACAATCACTGAGCATCTAAGAACATATC	60
	00
610 620 630 640	
TAGGTAAATATTGATTATAAATAAAAAATATACTTGCCAA 6	340
GAATAATGAG 650	



### alpha-SYN exon 5 (SEQ ID No: 17)

10	<b>2</b> 0	30	: 40
	<u> مسلميد لمست</u>		<u> </u>
ATATCTTAGCCAAGA	TTCAATGTTTGG	TTGAACCA	ACACTC 40
ACTIGACATETIGGT	GGCTTTTGTTTC	TTCTGACC	CACTCA 80
GTTATCTATGGCATG	TGTAGATACAGG	TGTATGGA	ANCGA 120
TGGCTAGTGGAAGTG	GAATGATTTTAA	GTCACTGT	TATTC 160
TACCACCETTTAATC	TGTTGTTGCTCT	TTATTTGT	ACCAG 200
210	220	230	240
<u> اینیانییانیی</u>	سيليس السيد	ليبيطي	لىسى
TGGCTGAGAAGACCA			
AGCAGTGGTGACGGG	TGTGACAGCAGT	AGCCCAGA	AGACA 280
GTGGAGGGAGCAGGG	AGCATTGCAGCA	GCCACTGG	CTTTG 320
TCAAAAAGGACCAGT	TGGGCAAGGTAT	GGCTGTGT	ACGTT 360
TTGTGTTACATTTAT	AAGCTGGTGAGA	TTACGGTT	
410	420	430	440
<del></del>	<u> بىلىنىلىدىد</u>	لتتبلين	<del></del>
TCATGTGAAGCCTGG	AGGCAGGAGCAA	GATACTTA	CTGTG 440
GGGAACGGCTACCTG	ACCCTCCCCTTG	TGAAAAAG	TGCTA 480
CCTTTATATTGGTCT	TGCTTGTTT 504	4	



# alpha-SYN exon 6 (SEC ID NO: 18)

10	20 لىيىلىن	30	40
AAAAGTTTACATACT CAATGTTTCCCCGGA TAGTAATATTAAGGT ACATCCCTATATGTA TTTTTAAAAAGTGAAA	TTGAGGTTGA GGCATTGTGC GTGCCATTT AGATTTTTCC	TAACCCATGT GAGTTTAGAAT CAAGATCCGT CAAAACATGGT CATCATGTTC 230	IGGCCA 120 ITCTGA 160
GTGCTTCTTACTTTA ACAGGAAGGAATTCT AATGAGGCTTATGAA CTGAATCTTTCTAAC GTCACATTTCTCTTT	AATATTAGA GGAAGATAT ATGCCTTCT AAGACAGTA CATTAGTGC 420	ATGAAGAAGGA GCCTGTGGAT GAGGTAGGAG CCAAAAACCT TTAGTGAGAA 430	AGCCCC 240 CCTGAC 280 TCCAAG 320 GTCATT 360 TCATTT 400 440
GCTCTCTACATGCTC GAATAGTTTTTACAT AGGAGGAGGAAGATC GAAATCATATGTAGT TTGACCCTTTACAGC	ATTACGIGG TTTTTAAAGG GAAGAAGAGG TCCACATAGC GAAAAGCTTT 620	ACAACTTGCA GTCCTTAAAA AAGAAAGGAT TTAATATACN ACTAACCCCT 630	AGTTAA 440 AAAAAG 480 GTAAAA 520 TACTAC 560 GCATTA 600 640
GAGAATATATTTT AGTGTAAAGTGGGG CAGTGCTGATGCGT GCTGTCT 727	AGCCATTTC	CTATCTCATTG	GCTGTC 680



# alpha-SYN exon 7 (SEQ ID No: 19)

10	20	30	40
TTTTGATTTTTCTAA AACCTGAAGCCTAAG AGATCTGCTGACAGA TTCCAATGTGCCCAG AGTGTATCTCGAAGT	AAATATOTTT TOTAOOTTOT TTAOAOTAOT	GCTCCCAGTT TGTACAAGTGG TCTCAAAGTT	TCTTG 80 TCAG 120 TTTAC 160
	لتبييليين	ليبيليين	
CTGTACCTGCCCCCA ACTGAAGTGAATACA GGATTTTGTGGCTTC AAACACCTAAGTGAC ATTTTTTTGTTGCTG 410	TGGTAGCAGG AATCTACGAT TACCACTTAT	GTCTTTGTGT( GTTAAAACAA TTCTAAATCCT	GCTGT 280 ATTAA 320 ICACT 360 ATTIG 400
<del></del>			440
CTATCATATATTATN ACTGTCTAAGAATAA TATATNATACTTAAA CTATAATACTAAATA TITTATTCACTTGTG	AGATITITAG TGACGTATTG AATATGTGAG TGAAATTTTA	GTGTCTTTTAA TGAAATTTGTT CATGAAACTAT CCATTTTGCGA	GCAC 520 TGTG 560
610	620	630	640
AATAAAACGTTATCT CCCATCTCACTTTAA CATGAATTAAGAACT TATTAATAGCCATTT TAGAGAAAATGGAAC	CATTGCAAA TAATAAAAAT GACACAAAGG GAAGAAGGAG ATTAACCCTA 820	ATATTTATTT CATGCTTATAA ACAAAAATATA GAATTTTAGAA CACTCGGAATT 830	TTAT 640 GCAA 680 AAGT 720 GAGG 760 CCCT 800
GAAGCAACACTGCCAGTCCTTAAGTGGCTGTGGAAGACCCCAACTACTTCAATCCTGTCAATGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGT	GAAGTGTGTT GATTAATTAT TATTGTAGAG GTTTGCTTTA ATGTGTTTAT 1020	TTGGTATGCAC TGAAAGTGGGG TGGTCTATTTC CGTATTTTGGG AATTGTTATAC 1030	TGGT 840 TGTT 880 TCCC 920 GAAC 960
TTAATTGAGCCTTTT, TCGAAATAATTTTTT, TGGTGTGAATGCTGT, GACCATGAATAAAAA, CTAAGCAGTGTAGAA	ATTAACATAT AGTTAAAATC ACCTTTCTGA AAAAAAAAA	ATTGTTATTTT TATTTTGTCTG CAATAAATAAT GTGGGTTCCCG	TGTC 1040 ATAT 1080 ATNC 1120 GGAA 1160



#### alpha-SYN exon 7

•	12,10	1220	1230	1240
	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	بالبيناب	<u>ىلىنىلىن</u>	<u> </u>
			TTAGCACATT	
			TTTAACTCAG	
			BAAATTCTCTC	
CICICIC	TTTTTCTCTC	GCTCTCTTTT	TTTTTTTTT	TTT 1360
TTTTACA	GGAAATGCCT	TTAAACATCG	TTGGGAACTA	CCA 1400
	1410	1420	1430	1440
			1430	
GAGTCAC	CTTAAAGGGA	GNATCAATTC	TCTAGGACTG	GAT 1440
GAGTCAC(	CTTAAAGGGA TCATGGGCCT	GNATCAATTC CCTTTAAAAT	TCTAGGACTG GTTGCCCAAA	GAT 1440 TAT 1480
GAGTCAC( AAAAATT ATGGAAT	CTTAAAGGGA TCATGGGCCT TCTAGGGGTT	GNATCAATTC CCTTTAAAAT TTTCCNTAGG	TCTAGGACTG GTTGCCCAAA GGGAAGGGTT	GAT 1440 TAT 1480
GAGTCACO AAAAATT ATGGAAT TCTCTTT	CTTAAAGGGA TCATGGGCCT TCTAGGGGTT TCNGGGGAGG	GNATCAATTC CCTTTAAAAT TTTCCNTAGG	TCTAGGACTG GTTGCCCAAA	GAT 1440 TAT 1480 111 1520 GGG 1560

